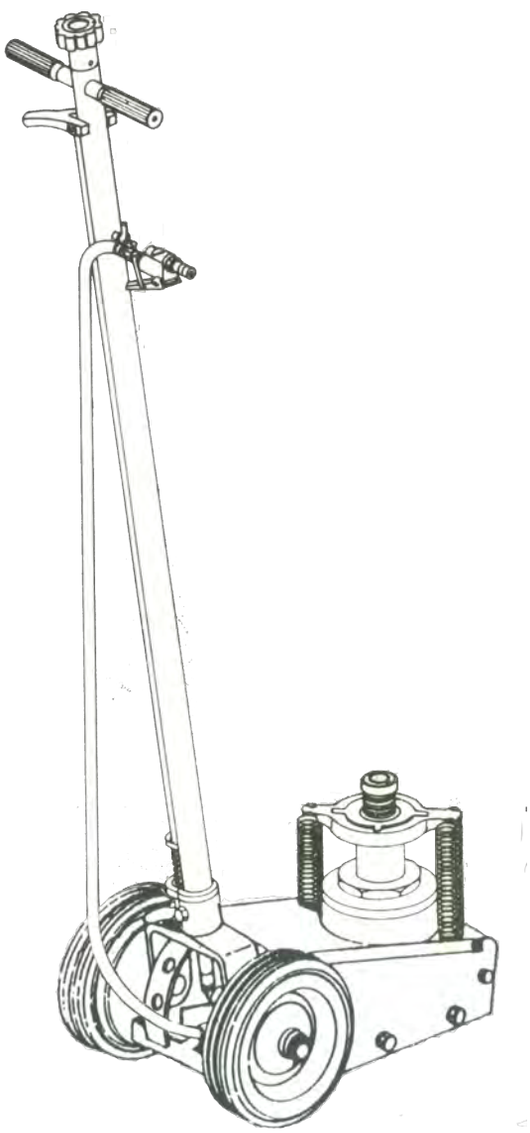
MODEL 820A
AIR HYDRAULIC JACK
USER'S MANUAL



Features:

- Air- operated hydraulic service jack.
- Professional use in repairing trucks, trailer buses and heavy duty vehicles.
- Air pressure range: 90-120 PSI
- Lock air valve by “U” lock without having to push the push plate all the time.
- Handle can be adjusted 3 different angles by lifting lock lever.
- Extension saddle included.

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South El Monte, CA
888-452-2526 www.jackco.com

FOR YOUR SAFETY

Read all instructions, warnings and cautions carefully. Follow all safety precautions to avoid personal injury or property damage during system operation. Jackco cannot be responsible for damage or injury resulting from unsafe product use, lack of maintenance or incorrect product and/or system operation. Contact Jackco when in doubt as to the safety precautions and operations.

Failure to comply with the following cautions and warnings could cause equipment damage and personal injury.

⚠ WARNING

- Stay clear of loads supported by hydraulics. A cylinder, when used as a load lifting device, should never be used as a load holding device. After the load had been raised or lowered, it must always be blocked mechanically.
- Do not exceed equipment rating never attempt to lift a load weighing more than the capacity of the cylinder. Overloading causes equipment failure and possible personal injury. The cylinders are designed for a maximum pressure of 10,000 psi. Do not connect a jack or cylinder to a pump with a higher pressure rating.
- The system operating pressure must not exceed the pressure rating of the lowest rated component in the system. Install pressure gauges in the system to monitor operating pressure. It is your window to what is happening in the system.
- BE SURE SETUP IS STABLE BEFORE LIFTING LOAD.
  Cylinders should be placed on a flat surface that can support the load. Where applicable, use a cylinder base for added stability. Do not weld or otherwise modify the cylinder to attach a base or other support.
- Avoid situations where loads are not directly centered on the cylinder plunger. Off-center loads produce considerable strain on cylinders and plungers. In addition, the load may slip or fall, causing potentially dangerous results.
- Immediately replace worn or damaged parts genuine JACKCO parts. Standard grade parts will break causing personal injury and property damage. JACKCO parts are designed to fit properly and withstand high loads.

⚠ DANGER

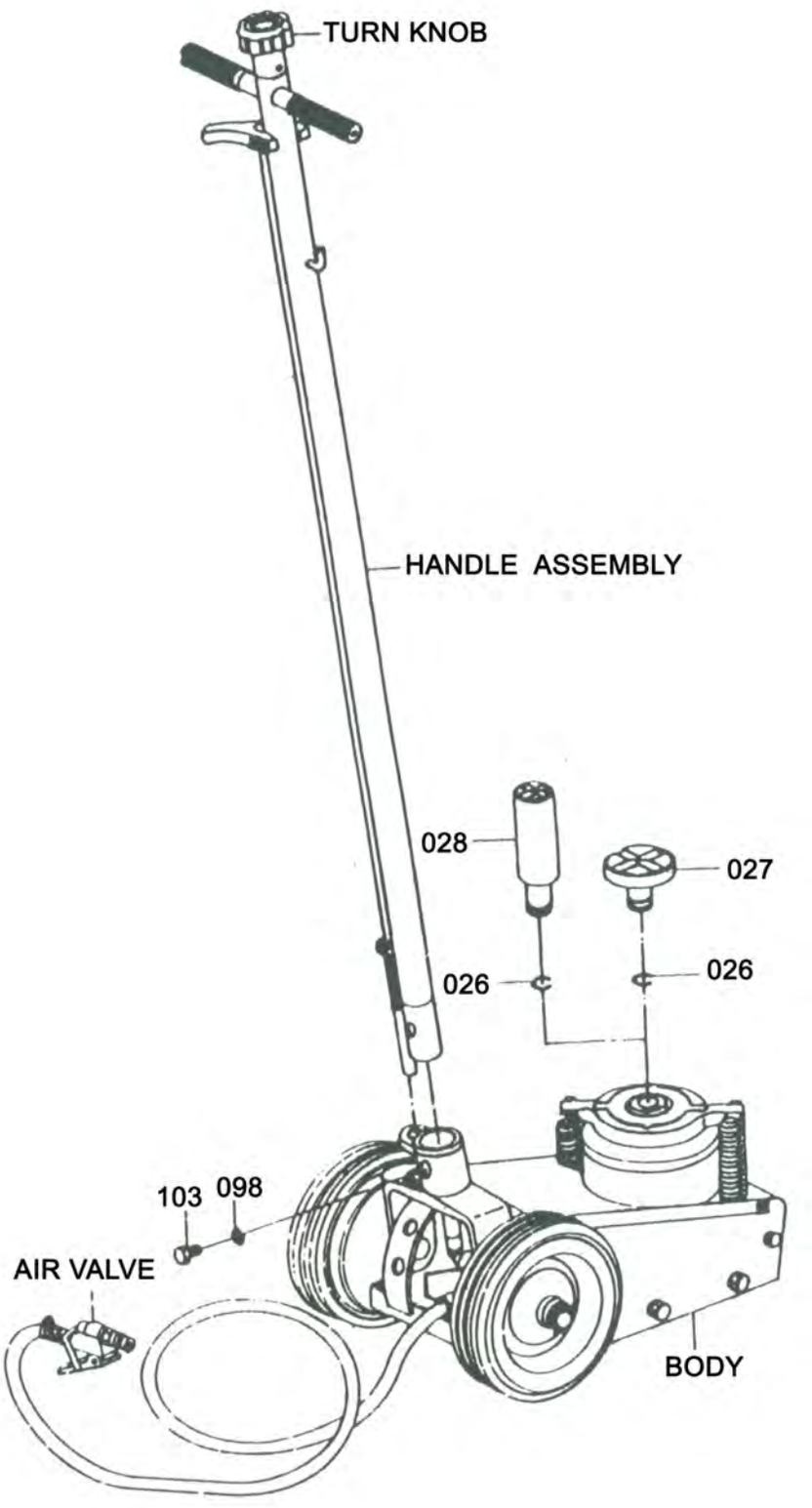
- To avoid personal injury keep hands and feet away from cylinder and work piece during operation.
- NEVER set the relief valve to a higher pressure than the maximum rated pressure of the pump. Higher settings may result in equipment damage and/or personal injury. Do no remove relief valve.

⚠ CAUTION

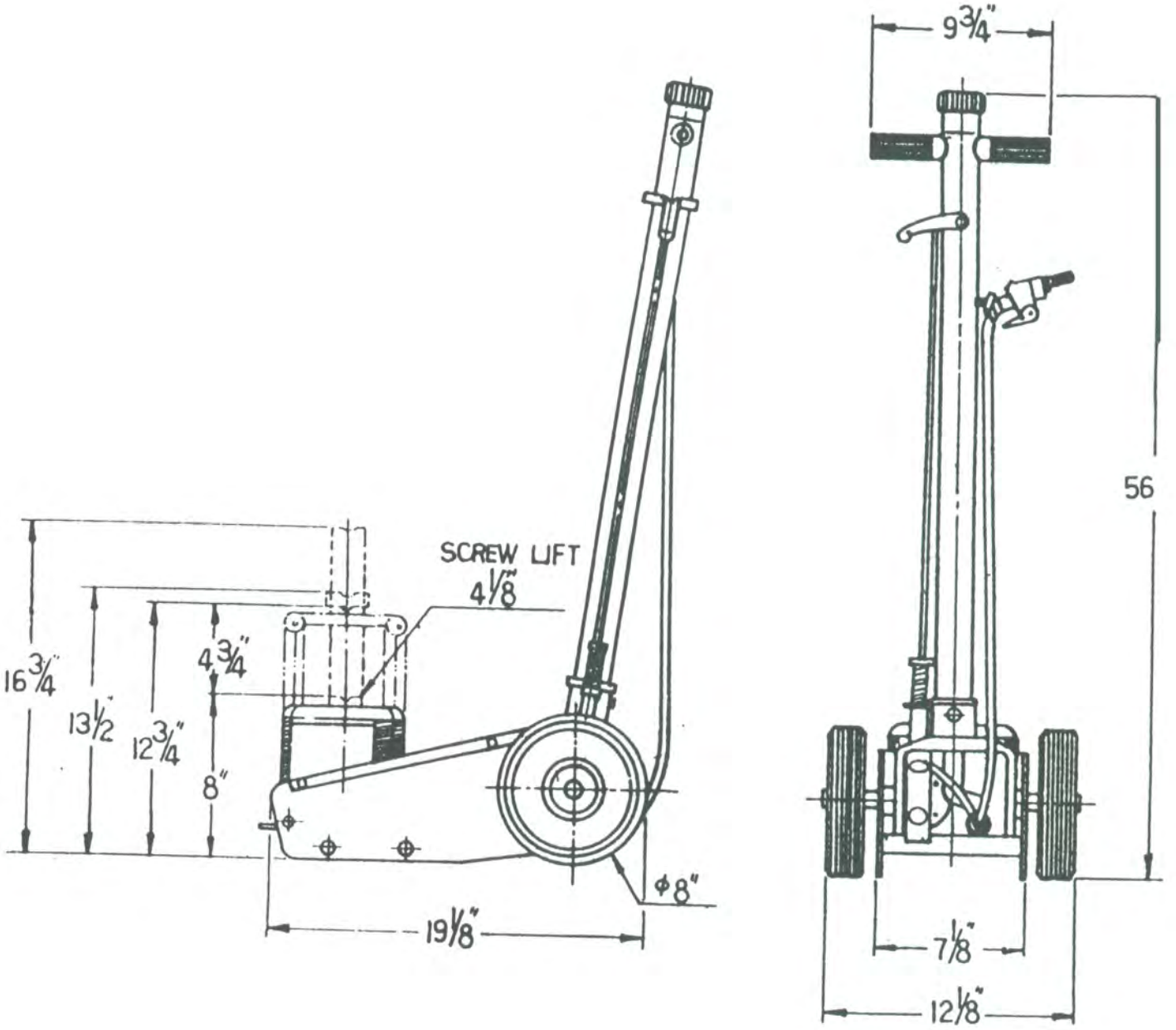
- Keep hydraulic equipment away from flames and heat. Excessive heat will soften packing and seals, resulting in fluid leaks. Heat also weakens hose materials and packings. For optimum performance do not expose equipment to temperatures of 150°F or higher. Protect hoses and cylinders from weld spatter.
- Hydraulic equipment must only be serviced by a qualified hydraulic technician. For repair service, contact JACKCO Inc. To protect your warranty, use only JACKCO hydraulic oil.

ASSEMBLING INSTRUCTION

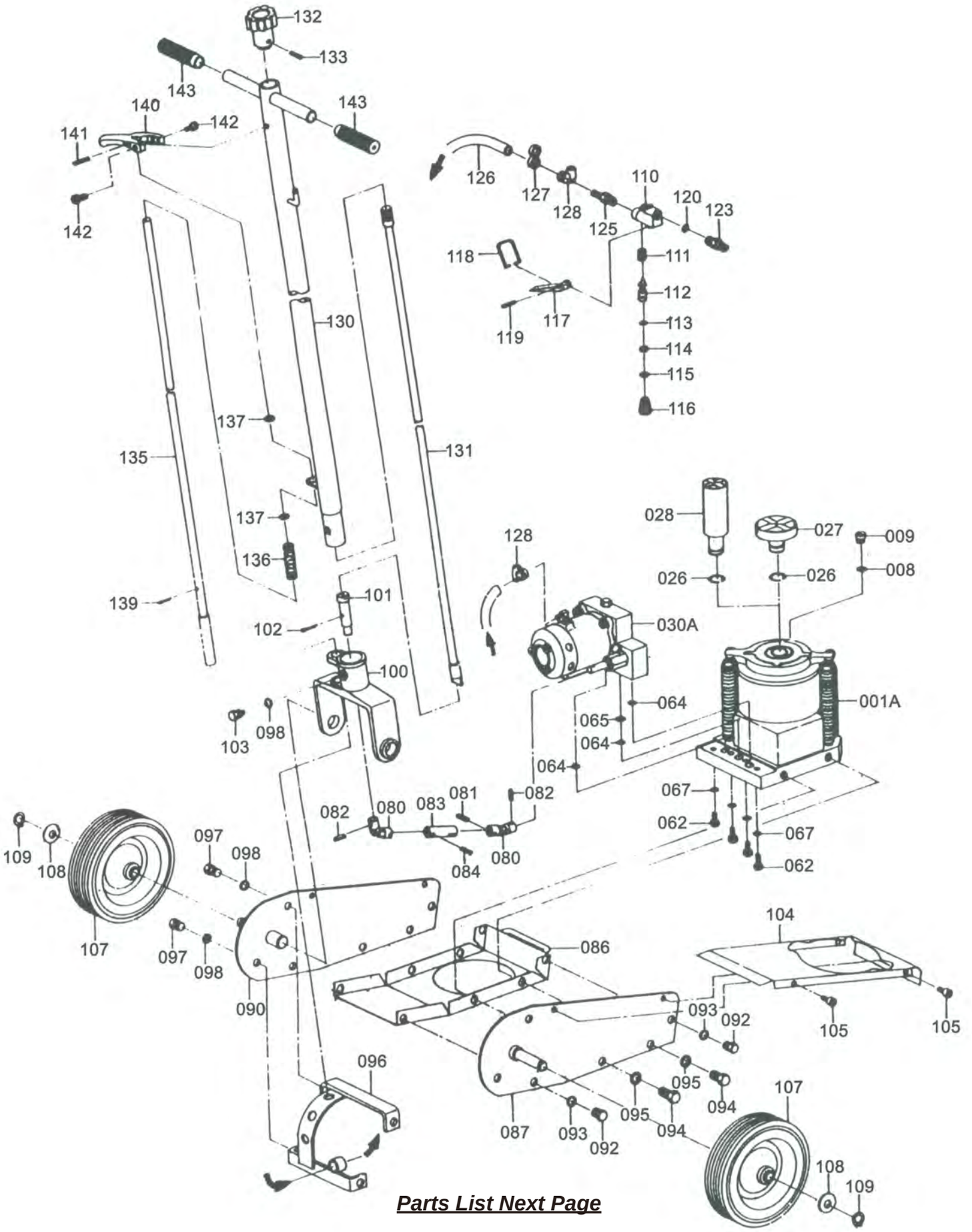
1. Insert (#027) saddle into the ram to increase contact surface. Replace with (#028) extension saddle to extend the lifting height.
2. Insert handle assembly into handle fork and tighten it with (1#03) set screw and (#098) spring washer.
3. To lift, turn knob clockwise and connect air valve to 90-120 PSI air source.
4. To lower, turn knob counterclockwise and ram will self-retract.



DIMENSIONS



Exploded View

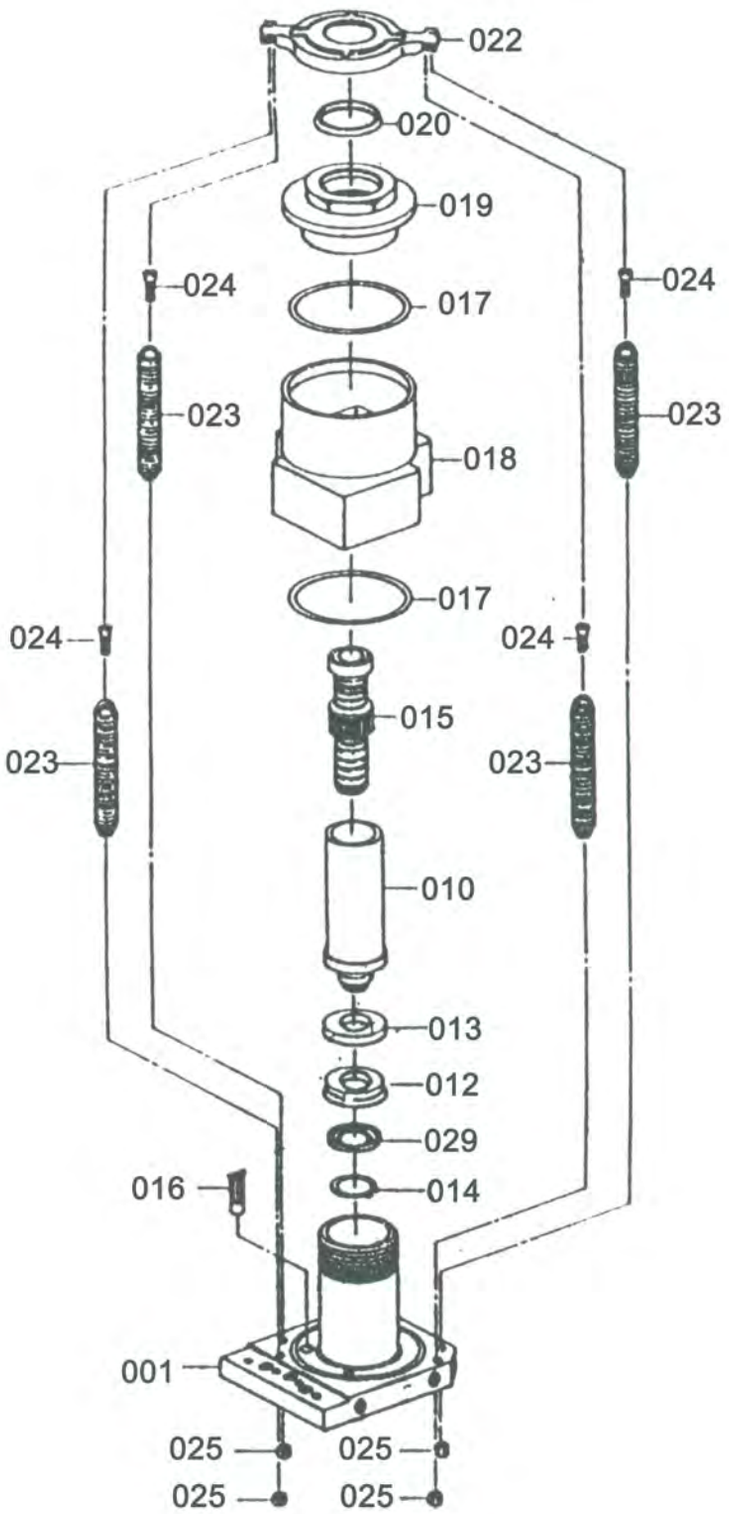


Parts List Next Page

Parts List

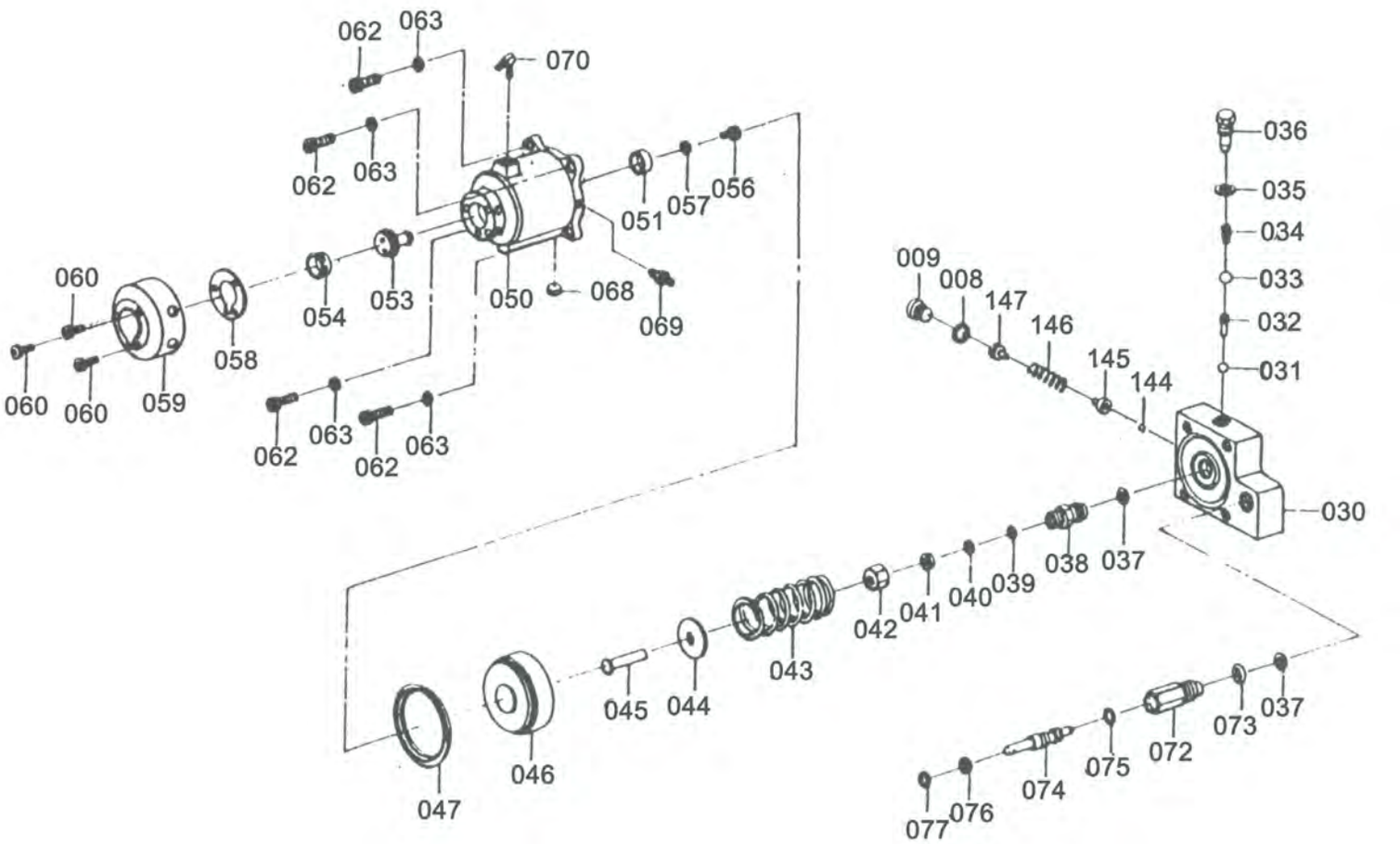
Part No.	Description	Q'ty	Part No.	Description	Q'ty
001A	Cylinder Assembly	1	107	Tire	2
008	Seal	1	108	Washer	2
009	Bolt	1	109	Snap-ring "C"	2
026	Snap- ring "C"	2	110	Air Valve Body	1
027	Saddle	1	111	Spring	1
028	Extension Saddle	1	112	Stem	1
030A	Pump assembly	1	113	O-ring	1
062	Bolt	4	114	Seal	1
064	O-ring	3	115	O-ring	1
065	Back-up Ring	1	116	Bolt	1
067	Conical Spring Washer	4	117	Push Plate	1
080	Universal Joint	2	118	U Lock	1
081	Spring Pin	1	119	Spring Pin	1
082	Spring Pin	2	120	Screen	1
083	Union Pipe	1	123	Joint	1
084	Spring Pin	1	125	Joint	1
086	Chassis	1	126	Hose	1
087	Right Side Plate Assembly	1	127	8-ring	1
090	Left Side Plate Assembly	1	128	Clamp, Hose	2
092	Bolt	4	130	Handle	1
093	Spring Washer	4	131	Release Rod	1
094	Bolt	4	132	Turn Knob	1
095	Spring Washer	4	133	Spring Spin	1
096	Fixed Bracket Angle	1	135	Adjustable Rod	1
097	Bolt	4	136	Spring	1
098	Spring Washer	5	137	Washer	2
100	Handle Fork	1	139	Split Pin	1
111	Connecting Spindle	1	140	Lock Lever	1
102	Split Pin	1	141	Spring Pin	1
103	Set Screw	1	142	Bolt	2
104	Cover	1	143	Grip	2
105	Bolt	4			

Exploded View of Cylinder Unit



Part No.	Description	Q'ty	Part No.	Description	Q'ty
001	Base Assembly	1	018	Reservoir	1
010	Ram	1	019	Head Nut	1
012	Cup Seal	1	020	Seal	1
013	Busing Ram	1	022	Support	1
014	Snap-Ring "C"	1	023	Recovery Spring	4
015	Screw with sleeve	1	024	Flat Head Bolt	4
016	Filter Screen	1	025	Nut	4
017	O-ring	2	029	Cup Washer	1

Exploded View of Pump Unit



Part No.	Description	Q'ty	Part No.	Description	Q'ty
030	Base Pump	1	056	Bolt	1
031	Ball ø 1/4"	1	057	Toothed Lock Washer	1
032	Stem	1	058	Gascket	1
033	Ball ø 3/8"	1	059	Cover Pump	1
034	Spring	1	060	Bolt	3
035	Washer	1	062	Blot	4
036	Bolt	1	063	Spring Washer	4
037	Washer	2	068	Fliter	1
038	Double End Fitting	1	069	Fliter	1
039	O-ring	1	070	Elbow Joint	1
040	Back-up Ring	1	072	Body Rlease Valve	1
041	Washer	1	073	O- ring	1
042	Nut	1	074	Release Valve	1
043	Spring	1	075	O-ring	1
044	Washer	1	076	Fixed Washer	1
045	Plunger	1	077	Snap- Ring "C"	1
046	Piston	1	144	Ball ø 7/32"	1
047	O-ring	1	145	Spring Plunger	1
050	Pump Body	1	146	Spring	1
051	Ring with Seal	1	147	Screw Spring	1
053	Valve Stem	1	008	Seal	1
054	Cup Seal	1	009	Bolt	1

Notes

LIMITED ONE YEAR WARRANTY

Jackco Transnational Inc. warrants all Jackco equipment and tools to the original purchaser against any manufacturing defect in material or workmanship for a period of one (1) year from the original date of purchase. If the defective equipment or tool is determined to be covered under this warranty, it shall be repaired or replaced at manufacturer's discretion without charge, provided that the equipment or tool must be returned with proof of purchase to the dealer and freight prepaid, if returned to the manufacturer. This warranty shall not apply to damage due to accident, negligent use, and lack of maintenance, abuse or applications other than the specific function the equipment or tool is designed for.

No other warranties, expressed or implied, including those of merchantability or fitness for particular purpose shall be applicable to Jackco except as specifically stated herein. In no event shall Jackco be liable to any party for any special, direct, indirect, consequential, punitive damage of any nature caused by the sale or use of the equipment or tool.

Note: This warranty gives the original purchaser specific legal rights which may very from state to state.

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